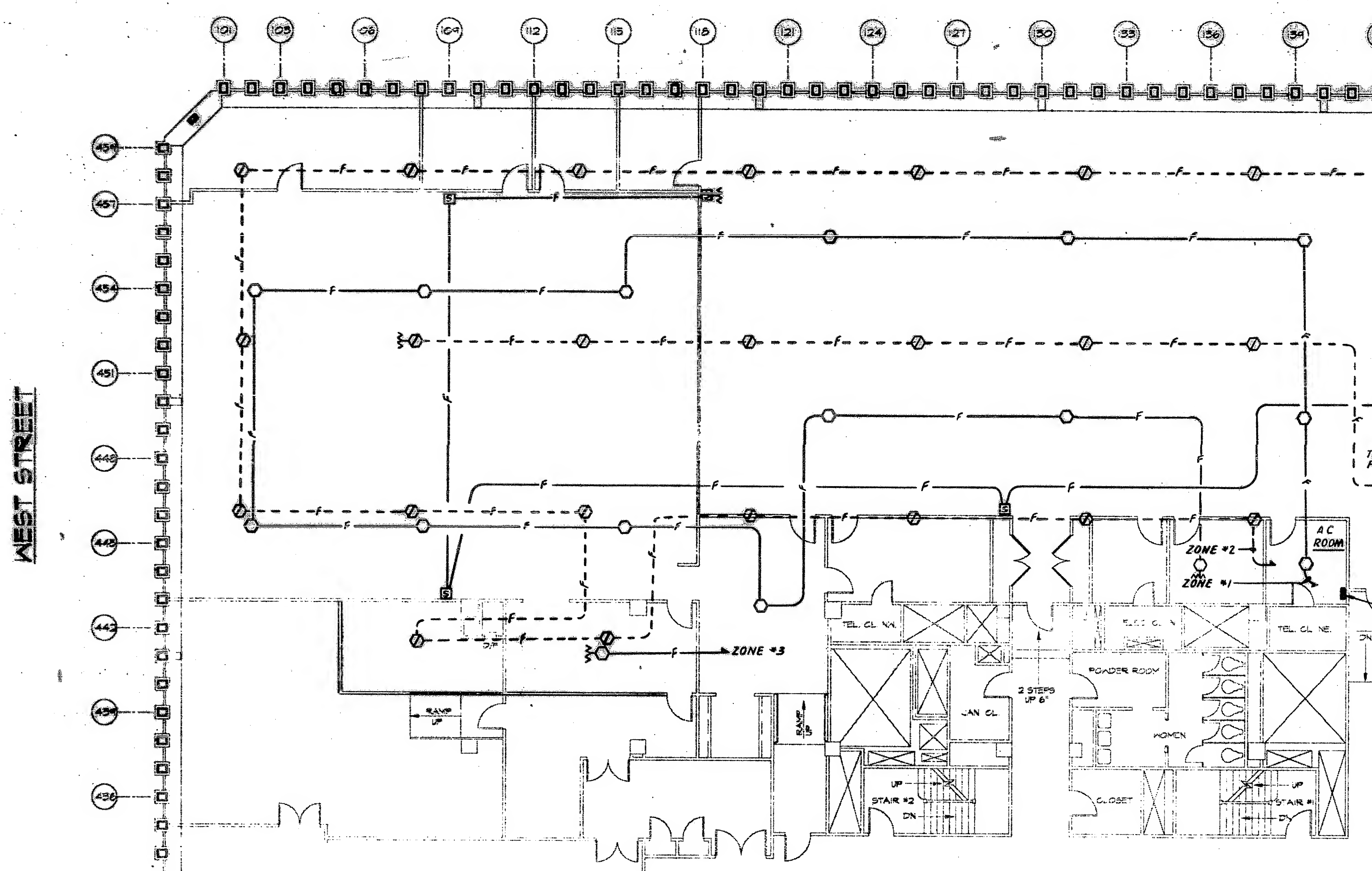


DRAWING NUMBER



SECTION SPECIFICATIONS

- [illegible]

PART 2 - PRODUCTS

2.01 SMOKE DETECTION SYSTEM

- ## 2.01 SMOKE DETECTION SYSTEM
- A. The smoke detection system shall be "System 3" manufactured by Pyroteronics. No substitutions will be allowed for the Pyroteronics equipment specified herein.
- B. Smoke Detection Control Panel. The control panel shall be model CF-35 and provide the following features and functions:
1. Provide necessary power for operation of smoke detector circuits and all required equipment.
 2. Sound a local alarm bell, trouble bell and strobe lights.
 3. Supervise the detector circuits and all required relay coils.
 4. Trouble indicator lamp.
 5. Separate indicator lamps for the following:
 - a. Smoke detection - one lamp per zone.
 6. One set of alarm and one set of trouble operated single-pole, double-throw, normally closed relay contacts.
 7. Silencing and reset switches.
 8. All necessary relays and other equipment required for operation as described herein and shown on Contract Drawings.
 9. Power supply module PS-33 rated @ 10 Amps.
- C. Smoke Detectors. Smoke Detectors shall be as follows:
- Smoke detectors shall operate on the ionization principle and shall be activated by the presence of combustion products. The detector head shall be a plug-in unit containing two ionization chambers, amplifier switching circuit and indicator lamp. The unit shall contain no moving parts. It shall be equipped with an integral alarm lamp and a base. Smoke detectors shall be Model DI-6 manufactured by Pyroteronics.
- D. All required smoke detection units shall be obtained by installation of input modules, Dual In Line Zener Model (U) 35 manufactured by Pyroteronics.
- E. The supplementary Relay Modules, Model SR-30 or SR-35 manufactured by Pyroteronics shall be installed to operate the following external devices: HVAC units and fan shut-downs.
- F. Control panel and all modules shall be mounted in a common street metal enclosure. The enclosure shall be provided with a hinged cover, and a lock with keys matching existing keying system. The enclosure shall contain ample space for all modules required under this contract and shall have a minimum of (6) future modules.
- G. The control panel and smoke detector modules shall be provided with a battery and a battery charger. The smoke detection system is of power failure type and shall be mounted in the same enclosure and shall transfer automatically on power failure.
- ### 2.02 WIRING
- All wires and cables shall be multi-conductor type (twice insulated with jacket). Cable shall be labeled "Fire Alarm Service" at regular intervals throughout its length, and approved for use in Class 1, Division 2 areas.
- All wiring shall be in accordance with the requirements of the New York City Electrical Code for all electrical Class 1 Systems. In addition, all wiring shall be in accordance with the National Electrical Code as conform to the NANNY Towner Code Book. Review.

203 NAMEPLATES

- 2.03 NAMEPLATES**
A. Nameplates shall be fabricated from plastic, with letters engraved white on black background.
B. Zone identifications shall be typewritten.
- PART 3 - EXECUTION**
3.01 INSTALLATION
 Install the smoke detection system in accordance with the Contract Drawings and as specified herein.
 The system shall be provided complete with all outlet boxes, junction boxes, cabinets, etc., regardless of whether or not such items are specified as integral parts of the equipment. All conduit and wiring installed in areas with finished hung ceilings shall be concealed.
- 3.02 FIELD TESTS**
A. After installation, system performance tests, including start-up and calibration of all components with all devices connected to the permanent construction, shall be conducted before any other tests are conducted.
B. The Contractor shall have the test procedure submitted to the Engineer for approval.
C. The tests shall be witnessed by the Engineer and shall continue until the results are satisfactory to the Engineer.
D. The tests shall be performed by a certified technician (factory trained) using the manufacturer's recommended test procedures and equipment.